

polyclonal antibody prepared against a peptide comprising the [an] amino acid sequence [comprising] VDALKTCACLLK [joined to a heterologous nucleic acid sequence].

B1

4. (Amended) A method of modifying vde levels in a host cell comprising growing a host cell having a [vde modifying construct in its genome, wherein said vde modifying] construct comprising [comprises], in the order of transcription, a plant transcription initiation region, the DNA [a plant vde encoding] sequence of Claim 3, and a transcriptional termination region[, and wherein said construct contains at least one sequence heterologous to the other sequences of said construct or to said plant].

B1

5. (Amended) The method of Claim 4 wherein said construct further comprises a translation initiation region and a plastid translocation sequence[and wherein said vde gene is in a sense orientation, whereby vde is overexpressed in said host cell].

Please cancel Claims 6, 7 and 8.

Sub F2

9. (Amended) A method of modifying [increasing] zeaxanthin levels in a plant comprising growing a plant having a [zeaxanthin modifying construct in its genome, wherein said zeaxanthin modifying] construct comprising [comprises], in the order of transcription, a plant transcription initiation region, the DNA [a plant vde encoding] sequence of Claim 3 and a transcriptional termination region [and wherein said construct contains at least one sequence heterologous to the other sequences of said construct or said plant].

B2

10. (Amended) A plant, plant cell or other plant part comprising the DNA sequence of Claim [any one of Claims 1, 2 and] 3.

Sub C2

11. (Amended) A plant, plant cell or other plant part produced by the method of any one of Claims 4, 5, [6, 7, 8,] and 9.

Please cancel Claims 12 through 15.

REMARKS